

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z080) PERRY				
	02/01/11 00:00 CST		4K	Winter Weather
	02/02/11 06:00 CST		0	
A strengthening low pressure system tracked northeast from the southern Plains, passing across the Lower Ohio Valley. On the north and west side of the low pressure track, a period of freezing rain caused hazardous conditions. Up to one-half inch of icing occurred north and west of a line from Mount Vernon to Pinckneyville. This icing was mostly on elevated surfaces, including trees and power lines. Isolated power outages were reported along the western border of Perry County. Most schools were closed in northern Jefferson County. Around one-tenth inch of ice glazed elevated surfaces further southeast, including the cities of Mount Vernon and Pinckneyville.				
(IL-Z078) WABASH, (IL-Z083) WHITE, (IL-Z087) GALLATIN, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z094) MASSAC				
	02/01/11 17:00 CST		6K	Strong Wind (MAX 40 kt)
	02/02/11 02:00 CST		0	
Measured peak wind gusts included: 46 mph at Round Knob (Massac County) and 45 mph at Mt. Carmel (Wabash County). A strengthening low pressure system tracked northeast from the southern Plains, passing across the Lower Ohio Valley. Just to the south of the low pressure center's path, strong southwest winds gusted from 40 to 50 mph at times. The strongest winds were in the southeasternmost counties, along the Wabash and Ohio Rivers.				
(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z092) ALEXANDER				
	02/05/11 00:00 CST		0	Winter Weather
	02/05/11 11:00 CST		0	
(IL-Z080) PERRY				
	02/05/11 00:00 CST		0	Winter Storm
	02/05/11 10:00 CST		0	
An upper-level storm system lifted northeast out of the southern Plains. An associated weak surface low moved northeast across western Kentucky and southwest Indiana. A few bands of moderate to locally heavy snowfall occurred to the north and west of the surface low path. Visibility was around one-quarter mile in the bands of heavy snow. Accumulations were generally from 1 to 3 inches across most of southern Illinois, except locally around 4 inches in Pinckneyville in Perry County. Less than an inch fell in four extreme southern counties around Metropolis. Specific snowfall amounts included 4 inches in Pinckneyville, 3 inches in Mount Vernon and Dahlgren (Hamilton County), 2 inches in Benton, and 1.5 to 2 inches along Route 13 from Murphysboro and Carbondale east across Harrisburg to Gallatin County. Roads were snow-covered and very slippery.				
(IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI				
	02/07/11 04:00 CST		0	Winter Weather
	02/07/11 13:00 CST		0	
(IL-Z094) MASSAC				
	02/07/11 05:00 CST		0	Heavy Snow
	02/07/11 14:00 CST		0	
A surface low pressure system developed in the Lower Mississippi Valley, then strengthened as it moved northeast across Tennessee and Kentucky. In the upper levels of the atmosphere, a rather strong disturbance tracked northeast from eastern Arkansas toward the Lower Ohio Valley. A band of heavy snow was produced by the upper level low. This band of heavy snow clipped the extreme southern tip of Illinois, where up to four inches of snow fell in Massac County. Elsewhere, storm total snowfall amounts ranged from 1 to 3 inches as far north as a line from Anna to Harrisburg and Shawneetown. Specific snowfall reports included: 4 inches in Metropolis, 3 inches near Delwood (Pope County) and Mound City (Pulaski County), 2 inches near Vienna and Dongola (Union County), and one inch in Shawneetown and Anna. Roads became snow-covered and slippery. Three people were injured when their pickup truck rolled into a ditch in rural Williamson County. The snow disappeared rather quickly from paved surfaces a few hours after the snow ended. This was mainly due to relatively warm pavement temperatures.				
(IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/09/11 07:00 CST		0	Winter Weather
	02/09/11 17:00 CST		0	

A large area of snow occurred along and to the east of a well-defined surface low pressure trough. East of the surface trough, northeasterly surface winds kept cold air in place. Warmer air moving in aloft created conditions favorable for snow. As the low pressure trough moved east across the region, the snow ended in its wake. Snowfall totals were generally from 1 to 2 inches along and south of Route 13, which extends from Carbondale and Marion east across Harrisburg to the Ohio River. Specific snowfall totals included: 2.5 inches in Mound City (Pulaski County), 2 inches in Metropolis and Cairo, 1.5 inches in northwest Pope County, and 1 inch at Murphysboro. Due to very cold temperatures, roads quickly became snow-packed and very slippery. Numerous accidents were reported. In White County, a fatal vehicle crash occurred on Route 1 about two miles south of Norris City. A 17-year-old female lost control of her vehicle on a snow-covered bridge, then crossed into the lane of oncoming traffic. She was struck by a tractor-trailer rig and pronounced dead at a local hospital.

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### (IL-Z081) FRANKLIN

02/15/11 12:00 CST	0	Wildfire
02/15/11 16:00 CST	0	

Strong south winds fanned the flames of a fast-moving field fire that threatened at least 20 homes on the eastern edge of West Frankfort. The fire burned about 100 acres of land that was formerly on a coal mine. Five residences were temporarily evacuated as flame heights reached about 20 feet. About a dozen local fire departments along with the U.S. Forest Service battled the blaze. Illinois Route 149 was shut down for a while in case the fire jumped the roadway.

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### (IL-Z075) JEFFERSON, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON

02/17/11 11:00 CST	5K	Strong Wind (MAX 44 kt)
02/17/11 17:00 CST	0	

Strong southwest winds developed between low pressure over the central Plains and high pressure along the southeast U.S. coast. From the Marion/Carbondale area north, winds gusted from 40 to 55 mph. Elsewhere, peak wind gusts were mostly between 35 and 40 mph across southern Illinois. The highest measured wind gust was 51 mph, which was observed at the Carbondale airport.

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### MASSAC COUNTY --- METROPOLIS [37.15, -88.73], 0.1 WNW ROUND KNOB [37.25, -88.75]

02/24/11 16:45 CST	50K	Heavy Rain
02/24/11 17:30 CST	0	Source: Trained Spotter

Viaducts were flooded along three streets in Metropolis, and one of them was impassable. A partially underground home near Joppa gave way to floodwaters and was deemed a total loss. A spotter near Round Knob measured over 4 inches, most of which fell in the previous twelve hours.

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### GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13]

02/24/11 17:00 CST	0	Heavy Rain
02/24/11 22:00 CST	0	Source: Trained Spotter

A spotter reported 3.5 inches of rain with quite a few flooded roadways.

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### PULASKI COUNTY --- 1.9 N GRAND CHAIN [37.30, -89.02], 1.7 SSE NEW GRAND CHAIN [37.23, -89.01], 1.1 SW OLMSTED [37.17, -89.09], 2.0 NNW LEVINGS [37.25, -89.09]

02/24/11 18:10 CST	70K	Flash Flood (due to Heavy Rain)
02/24/11 21:30 CST	0	Source: Emergency Manager

Two bridges were washed out. One of the bridges was on a main street in Olmsted, and the other was on a secondary road. Three to four inches of water covered State Route 37 at the Johnson County line. Warning signs were posted to alert motorists. Water was over a couple of other roads in the Olmsted and Grand Chain areas. A spotter reported storm-total rainfall of about three inches, of which two inches fell in the past twelve hours.

In the lower levels, a low intensified as it tracked from Oklahoma into southern Missouri during the day, then across the Lower Ohio Valley in the evening. To the east of the low, a warm front advanced northward to the Lower Ohio Valley. Widespread heavy rain occurred in association with the warm front.

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### WABASH COUNTY --- 1.9 NE MT CARMEL [38.44, -87.75], 2.1 NE MT CARMEL [38.44, -87.74], 1.5 E MT CARMEL [38.42, -87.74], 1.2 ENE MT CARMEL [38.43, -87.75]

02/27/11 06:00 CST	0	Flood (due to Heavy Rain)
02/28/11 23:59 CST	0	Source: River/Stream Gage

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### ALEXANDER COUNTY --- 2.3 ESE CAIRO [36.98, -89.14], 2.4 ESE CAIRO [36.99, -89.14], 1.6 E CAIRO [37.00, -89.15], 1.1 ESE CAIRO [37.00, -89.16]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/27/11 08:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage
<b>PULASKI COUNTY --- 2.6 ESE LEVINGS [37.21, -89.03], 0.7 SE OLMSTED [37.17, -89.07], 0.7 ENE OLMSTED [37.18, -89.07], 1.9 ESE LEVINGS [37.21, -89.04]</b>				
	02/27/11 08:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage
<b>WHITE COUNTY --- MAUNIE [38.03, -88.05], 0.8 ENE MAUNIE [38.03, -88.04], 2.2 E MAUNIE [38.03, -88.01], 1.4 ESE MAUNIE [38.02, -88.03]</b>				
	02/28/11 06:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage
<b>MASSAC COUNTY --- BROOKPORT [37.12, -88.63], 1.7 ESE METROPOLIS [37.14, -88.70], 1.8 ESE METROPOLIS [37.14, -88.70], 0.7 NW BROOKPORT [37.13, -88.64]</b>				
	02/28/11 08:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage
Spring river flooding arrived early across the region. Two heavy rainfall events during the last week of the month produced 3 to 6 inches. The flooding was enhanced by snowmelt following the snowy weather of January into early February. Both the Wabash and Ohio Rivers rose above flood stage at many locations within a day or two of month's end. The flooding along both rivers was minor in February, consisting of flooded two-lying fields. However, the rivers continued rising in March.				
<b>WAYNE COUNTY --- WAYNE CITY [38.35, -88.58], FAIRFIELD [38.38, -88.37]</b>				
	02/27/11 21:54 CST		0	Hail (0.88 in)
	02/27/11 21:55 CST		0	Source: Broadcast Media
Nickel-size hail fell in Fairfield. Dime-size hail fell in southwest portions of the county.				
<b>JEFFERSON COUNTY --- MT VERNON [38.32, -88.90]</b>				
	02/28/11 00:45 CST	6K		Thunderstorm Wind (EG 52 kt)
	02/28/11 00:45 CST	0		Source: Law Enforcement
One power pole and power line was down.				
<b>WAYNE COUNTY --- 0.5 W ORCHARDVILLE [38.50, -88.66], 1.0 NE MT ERIE [38.53, -88.22]</b>				
	02/28/11 00:55 CST	60K		Thunderstorm Wind (EG 70 kt)
	02/28/11 01:12 CST	0		Source: NWS Storm Survey
The damage swath extended from Orchardville along and north of Highway 161 to a mile northeast of Mount Erie. Much of the damage was near Cisne, where a house porch was damaged, a large outbuilding was destroyed, and a sign was damaged. A couple of barns and garages were blown over or destroyed. There was minor damage to a couple of sturdier buildings, including a church steeple in Orchardville. Several trees and power lines were down. A power pole was blown over.				
<b>WAYNE COUNTY --- 1.6 E WAYNE CITY [38.35, -88.55]</b>				
	02/28/11 00:59 CST	0		Hail (0.75 in)
	02/28/11 00:59 CST	0		Source: Emergency Manager
Dime-size hail fell east of the community of Wayne City.				
<b>JEFFERSON COUNTY --- 1.9 ENE MARCOE [38.28, -88.94]</b>				
	02/28/11 01:01 CST	0		Hail (0.75 in)
	02/28/11 01:01 CST	0		Source: Trained Spotter
Dime-size hail was reported at the intersection of Highway 148 and Interstate 57, just south of Mount Vernon.				
<b>WAYNE COUNTY --- 2.4 ESE KEENES [38.31, -88.59], SIMS [38.37, -88.53]</b>				
	02/28/11 01:14 CST	5K		Thunderstorm Wind (MG 56 kt)
	02/28/11 01:18 CST	0		Source: Trained Spotter

Measured wind gusts to 65 mph occurred in the community of Smithville, south of Wayne City. The wind gusts lasted three to four minutes. The nearby community of Sims was without power, and tree limbs were down.

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<b>EDWARDS COUNTY --- ALBION [38.38, -88.05]</b>				
	02/28/11 01:31 CST		0	Hail (0.75 in)
	02/28/11 01:31 CST		0	Source: Broadcast Media
Hail up to the size of dimes fell in the community.				
<b>WABASH COUNTY --- BELLMONT [38.38, -87.92], MT CARMEL [38.42, -87.77]</b>				
	02/28/11 01:34 CST		15K	Thunderstorm Wind (EG 56 kt)
	02/28/11 01:43 CST		0	Source: Broadcast Media
In Mt. Carmel, wind gusts estimated from 60 to 65 mph destroyed a transformer and downed a large tree. The tree landed on a house, causing some roof damage. A vehicle and a television antenna sustained damage from the tree. In Bellmont, a trained spotter estimated a gust to 60 mph.				
<b>JOHNSON COUNTY --- 3.0 W BUNCOMBE [37.47, -89.02]</b>				
	02/28/11 02:20 CST		60K	Thunderstorm Wind (EG 70 kt)
	02/28/11 02:20 CST		0	Source: Newspaper
Several structures were damaged or destroyed on a farm. One machine shed was levelled, with only the north wall left standing. The roofs were blown off two other sheds. Two grain bins were heavily damaged. One of the bins was blown on its side, and the other bin was shifted three feet off its foundation. Part of the roof to one of the sheds was wrapped around a utility pole. The other part of the roof blew across a road and wrapped around a tractor.				
<b>MASSAC COUNTY --- 0.8 SSW NEW COLUMBIA [37.31, -88.78], MIDWAY [37.23, -88.63]</b>				
	02/28/11 02:45 CST		10K	Thunderstorm Wind (EG 65 kt)
	02/28/11 03:00 CST		0	Source: Emergency Manager
Several trees and power lines were down, and a vacant old trailer was blown over on County Road 700E near New Columbia. Debris from the trailer blocked the road. A tree was down on a road near Midway.				
<b>A surface cyclone accelerated northeast from the southern Plains through central Missouri and the Ohio Valley. An associated warm front lifted northward through the Mid-Mississippi and Lower Ohio Valleys in advance of the surface low. A cold front trailing south from the low surged eastward toward the Lower Mississippi Valley. Lines and clusters of severe storms tracked rapidly eastward, producing locally damaging winds and hail.</b>				
<b>INDIANA, Southwest</b>				
<b>(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER</b>				
	02/01/11 18:00 CST		6K	Strong Wind (MAX 43 kt)
	02/02/11 02:00 CST		0	
Measured peak wind gusts included: 50 mph at Rockport (Spencer County), 47 mph at Evansville, 45 mph at Newburgh (Warrick County), 41 mph at Princeton (Gibson County), and 40 mph at Fort Branch (Gibson County). Several small power outages occurred in Gibson County. A strengthening low pressure system tracked northeast from the southern Plains, passing across the Lower Ohio Valley. Just to the south of the low pressure center's path, strong southwest winds gusted from 40 to 50 mph at times.				
<b>VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]</b>				
	02/24/11 14:00 CST		0	Heavy Rain
	02/24/11 21:30 CST		0	Source: Trained Spotter
Storm total rainfall from 2.5 to 3 inches was reported in the Evansville metropolitan area. Hourly rainfall rates were near one-half inch for a couple hours. Several roads were reportedly becoming impassable.				
<b>SPENCER COUNTY --- ROCKPORT [37.88, -87.05]</b>				
	02/24/11 15:00 CST		0	Heavy Rain
	02/24/11 21:00 CST		0	Source: Trained Spotter
Standing water was over many streets. A spotter reported storm-total rainfall of 3.13 inches.				
<b>WARRICK COUNTY --- 0.5 W PARADISE [37.98, -87.39], NEWBURGH [37.95, -87.42]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/24/11 15:00 CST		0	Heavy Rain
	02/24/11 21:00 CST		0	Source: Trained Spotter
A street was underwater near Newburgh. Ditches along Highway 261 were overflowing onto the roadway. A spotter reported storm-total rainfall of 2.47 inches, of which 2.25 inches fell in several hours.				
In the lower levels, a low intensified as it tracked from Oklahoma into southern Missouri during the day, then across the Lower Ohio Valley in the evening. To the east of the low, a warm front advanced northward to the Lower Ohio Valley. Widespread heavy rain occurred in association with the warm front.				
<b>WARRICK COUNTY --- 1.4 SE NEWBURGH [37.94, -87.40], 2.8 ESE NEWBURGH [37.93, -87.38], 2.6 ESE NEWBURGH [37.93, -87.38], 1.4 ESE NEWBURGH [37.94, -87.40]</b>				
	02/26/11 08:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage
<b>GIBSON COUNTY --- 1.0 NW EAST MT CARMEL [38.41, -87.75], 1.8 WSW EAST MT CARMEL [38.39, -87.76], 1.6 WSW EAST MT CARMEL [38.39, -87.76], 0.8 WNW EAST MT CARMEL [38.40, -87.74]</b>				
	02/27/11 06:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage
<b>POSEY COUNTY --- 1.3 NNE HOVEY [37.92, -87.92], 1.3 NE HOVEY [37.91, -87.91], 0.5 SSW MT VERNON [37.92, -87.90], 0.6 SW MT VERNON [37.92, -87.91]</b>				
	02/27/11 08:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage
<b>POSEY COUNTY --- 0.6 NW NEW HARMONY [38.14, -87.94], 0.9 NNE NEW HARMONY [38.14, -87.93], 0.8 NNE NEW HARMONY [38.14, -87.92], 0.5 NW NEW HARMONY [38.14, -87.94]</b>				
	02/28/11 08:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage
Spring river flooding arrived early across the region. Two heavy rainfall events during the last week of the month produced 3 to 6 inches. The flooding was enhanced by snowmelt following the snowy weather of January into early February. Both the Wabash and Ohio Rivers rose above flood stage at many locations within a day or two of month's end. The flooding along both rivers was minor in February, consisting of flooded two-lying fields. However, the rivers continued rising in March.				
<b>GIBSON COUNTY --- 6.0 W OWENSVILLE [38.27, -87.79], 0.5 E SOMERVILLE [38.28, -87.36]</b>				
	02/28/11 01:36 CST		0.15M	Tornado (EF1, L: 23.32 mi , W: 250 yd)
	02/28/11 02:04 CST		0	Source: NWS Storm Survey
Near Owensville, a mobile home was shifted off its foundation and a garage was moved about two feet and destroyed. About a half-dozen homes sustained mainly shingle damage. Numerous large trees were blown down. Further east along the damage path, a house lost about one-quarter of its roof, including plywood. In the Somerville area, a couple barns were partially unroofed, shingles were off a house and church, and over a dozen trees were snapped or uprooted. Peak winds were estimated near 105 mph. The average path width was 175 yards.				
<b>GIBSON COUNTY --- 1.8 ESE PRINCETON [38.34, -87.54], 1.6 ENE OAKLAND CITY [38.34, -87.32]</b>				
	02/28/11 01:51 CST		0.35M	Tornado (EF2, L: 11.80 mi , W: 300 yd)
	02/28/11 02:01 CST		0	Source: NWS Storm Survey
Near the start of the damage path near Princeton, several trees were uprooted and an antenna was blown down by winds near 85 mph. Four miles east of Princeton off Indiana Highway 64, shingles were off two homes and another antenna was down. The tornado reached its peak intensity in Oakland City, where two houses were deemed total losses and several others were heavily damaged. Windows were blown out. A funnel cloud was sighted by a trained spotter. Peak wind was 115 mph. Average path width was 300 yards. The tornado crossed into Pike County just east of Oakland City.				
<b>POSEY COUNTY --- 1.0 W STEWARTSVILLE [38.18, -87.85]</b>				
	02/28/11 01:54 CST		0	Hail (0.75 in)
	02/28/11 01:54 CST		0	Source: Trained Spotter
<b>GIBSON COUNTY --- OWENSVILLE [38.27, -87.68]</b>				
	02/28/11 01:55 CST		0	Hail (0.88 in)
	02/28/11 01:55 CST		0	Source: Trained Spotter
<b>POSEY COUNTY --- 1.0 W STEWARTSVILLE [38.18, -87.85]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/28/11 02:03 CST		0	Hail (1.00 in)
	02/28/11 02:03 CST		0	Source: Trained Spotter
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<b>PIKE COUNTY --- 3.3 SSW LITTLE [38.34, -87.32], 2.0 WSW VELPEN [38.34, -87.13]</b>				
	02/28/11 03:01 EST		0.25M	Tornado (EF2, L: 10.21 mi , W: 550 yd)
	02/28/11 03:09 EST		0	Source: NWS Storm Survey

The tornado entered Pike County from Gibson County about 1.5 miles east of Oakland City. Damage was primarily to trees in this rural area. Hundreds of large trees were snapped off or uprooted, and barn roofs were blown off. A garage was demolished near Arthur. The most intense damage occurred two miles east of Arthur, where peak winds were estimated near 115 mph. Average path width was 300 yards.

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<b>PIKE COUNTY --- 1.0 S OTWELL [38.44, -87.10], 2.5 SW OTWELL [38.42, -87.13]</b>				
	02/28/11 03:10 EST		0.15M	Tornado (EF0, L: 1.93 mi , W: 200 yd)
	02/28/11 03:14 EST		0	Source: NWS Storm Survey

A few homes had partial roof loss. Several homes sustained shingle damage. The roof was blown off a two-car garage and a large farm shed. About a dozen trees were down or damaged. The average path width was 150 yards. Peak wind was estimated about 85 mph.

**A surface cyclone accelerated northeast from the southern Plains through central Missouri and the Ohio Valley. An associated warm front lifted northward through the Mid-Mississippi and Lower Ohio Valleys in advance of the surface low. A cold front trailing south from the low surged eastward toward the Lower Mississippi Valley. Lines and clusters of severe storms tracked rapidly eastward, along with a couple of tornadic supercells.**



*Photo of house in Oakland City heavily damaged by an EF-2 tornado. NWS photo.*

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>KENTUCKY, Southwest</b>				
(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD				
	02/01/11 17:00 CST		22K	Strong Wind (MAX 42 kt)
	02/02/11 02:00 CST		0	
Measured peak wind gusts included: 48 mph at Hopkinsville and Henderson, and 47 mph at Benton. Gusts were estimated around 55 mph in the Owensboro area, where some trees were blown down. A few roads were blocked by the trees. A roof was blown off an old, dilapidated mobile home near Murray. A tree fell on a power line north of Murray. A power line was blown down in Lone Oak, just southwest of Paducah. Small power outages were reported across western Kentucky. A strengthening low pressure system tracked northeast from the southern Plains, passing across the Lower Ohio Valley. Just to the south of the low pressure center's path, strong southwest winds gusted from 40 to 55 mph at times.				
(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD				
	02/07/11 04:00 CST		0	Heavy Snow
	02/07/11 18:00 CST		0	
(KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN				
	02/07/11 05:00 CST		0	Winter Weather
	02/07/11 17:00 CST		0	
A surface low pressure system developed in the Lower Mississippi Valley, then strengthened as it moved northeast across Tennessee and Kentucky. In the upper levels of the atmosphere, a rather strong disturbance tracked northeast from eastern Arkansas toward the Lower Ohio Valley. A band of very heavy snow was produced by the upper level low, where snowfall rates were measured up to two inches per hour. Storm total snowfall amounts ranged from 6 to 8 inches in this band, which covered areas generally south and west of a line from Marion to Madisonville. There were a couple isolated reports of 9 to 10 inches in Marshall County. To the north of the Marion to Madisonville line, amounts were generally in the 2 to 4 inch range. Specific snowfall reports included: 10 inches near Draffenville (Marshall County), 8 inches in Benton, 7.5 inches at Cayce (Fulton County), 6.5 inches in Eddyville (Lyon County) and Murray, 6 inches at Mayfield, Paducah, Princeton, and Wickliffe, 5.5 inches in Mortons Gap (Hopkins County), 5 inches in Hopkinsville, 2 inches in Owensboro, and 1 inch in Henderson. Roads became snow-covered and slippery. The Land Between The Lakes National Recreation Area was closed due to hazardous or impassable roads. Numerous vehicles slid off roads or crashed during the heaviest snow. In McCracken County, U.S. Highway 62 and Highway 286 was closed west of Paducah after about twenty cars ran off the road. Multiple cars slid off Interstate 24 between the 6 and 9 mile markers in Paducah. In Hickman County, a tractor-trailer rig overturned on U.S. 51 and resulted in injuries. School busses slid off roads in McCracken and Marshall Counties. Many schools decided to open at the normal time, but the snow became heavy before busses even reached the schools. The students were sent back home almost as soon as they arrived at school. The snow disappeared rather quickly from paved surfaces a few hours after the snow ended. This was mainly due to relatively warm pavement temperatures.				
(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z006) GRAVES, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z012) TRIGG, (KY-Z017) CHRISTIAN, (KY-Z022) TODD				
	02/09/11 07:00 CST		0	Heavy Snow
	02/09/11 18:00 CST		0	
(KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z007) LIVINGSTON, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG				
	02/09/11 08:00 CST		0	Winter Weather
	02/09/11 19:00 CST		0	
(KY-Z007) LIVINGSTON, (KY-Z011) LYON				
	02/10/11 00:00 CST		0	Freezing Fog
	02/10/11 09:00 CST		0	

A large area of snow occurred along and to the east of a well-defined surface low pressure trough. East of the surface trough, northeasterly surface winds kept cold air in place. Warmer air moving in aloft created conditions favorable for heavy snow. The heaviest

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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snow occurred just ahead of a disturbance in the mid levels of the atmosphere. Snowfall rates in a narrow band near the Tennessee border were 1 to 2 inches per hour. As the low pressure trough moved east across the region, the snow ended in its wake. The heaviest snowfall totals occurred along and south of a line from Bardwell (Carlisle County) through Benton to Hopkinsville, where 4 to 5 inches was common. North of that line, amounts were generally from 1 to 3 inches. Specific snowfall totals included: 5 inches in Pembroke (Christian County) and Murray, 4 inches in Hopkinsville, Cadiz (Trigg County), Elkton (Todd County), Fulton (Fulton County), Bardwell, and near Draffenville (Marshall County), 3.5 inches in Hardin (Marshall County), 2.5 inches in Calvert City (Marshall County) and Paducah, 2 inches in Madisonville, 1.5 inches in Eddyville (Lyon County), and about one inch in Owensboro and Henderson. Due to very cold temperatures, roads quickly became snow-packed and very slippery. Numerous accidents were reported. A multi-vehicle crash blocked all lanes of the Purchase Parkway in Marshall County. Five vehicles were involved in an accident in Oak Grove in Christian County. Visibility was reduced to one-quarter mile or less in the heavy snow areas. Many schools were closed or dismissed early. Following the snow, a combination of residual moisture and dense freezing fog caused a fatal wreck on the Interstate 24 bridge westbound over the Cumberland River. The early morning accident started when the driver of a van lost control on the bridge and struck the concrete wall. As a tractor-trailer rig approached the crash site, the van driver jumped off the bridge to avoid being struck. The van driver died. The drivers of five tractor-trailer rigs that subsequently crashed on the bridge were uninjured. The interstate was closed for several hours between mile markers 31 and 40 due to the wreckage. The freezing fog was caused by temperatures around zero over the relatively warm river water below.

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### (KY-Z016) HOPKINS, (KY-Z021) MUHLENBERG

02/17/11 10:00 CST	2K	Strong Wind (MAX 39 kt)
02/17/11 15:00 CST	0	

Strong southwest winds developed between low pressure over the central Plains and high pressure along the southeast U.S. coast. Over portions of the Pennyrile region of western Kentucky, winds gusted to about 45 mph. Elsewhere, peak wind gusts were mostly between 30 and 40 mph across western Kentucky. The highest measured wind gust was 45 mph, which was observed by a spotter on a hill in Central City (Muhlenberg County). A few small tree limbs about three inches in diameter were blown down, and patio furniture was moved.

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### TODD COUNTY --- SHARON GROVE [36.92, -87.10]

02/24/11 14:00 CST	0	Heavy Rain
02/24/11 23:30 CST	0	Source: Trained Spotter

A spotter reported storm-total rainfall of 2.80 inches.

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### HOPKINS COUNTY --- MADISONVILLE [37.33, -87.50]

02/24/11 17:00 CST	0	Heavy Rain
02/24/11 23:30 CST	0	Source: Department of Highways

The railroad underpass on U.S. Highway 41 was flooded.

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### CALLOWAY COUNTY --- 2.3 NW STELLA [36.67, -88.41], 2.1 ENE TAYLORS STORE [36.54, -88.38]

02/24/11 18:00 CST	0	Heavy Rain
02/24/11 23:00 CST	0	Source: Department of Highways

In western parts of the county, water was over Kentucky Highways 299 and 783 in spots.

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### MCCRACKEN COUNTY --- ST JOHNS [36.97, -88.68], 0.9 E OAKS [36.97, -88.53], 1.8 ESE ROWLANDTOWN [37.09, -88.60], 2.7 ENE GRAHAMVILLE [37.12, -88.74], 1.8 SSE (PAH)BARKLEY ARPT PA [37.04, -88.76]

02/24/11 18:00 CST	30K	Flash Flood (due to Heavy Rain)
02/24/11 22:00 CST	0	Source: Emergency Manager

Numerous streets and roads around the county became covered by water. An intersection on Highway 305 just west of Paducah was closed after several motorists were rescued from stranded vehicles. Just west of Paducah, Highway 1565 was under six inches of flowing water. A few miles south of Paducah, Champion Creek overflowed onto Highway 994, causing a vehicle to stall in water up to the car trunk. A flood-prone viaduct on U.S. Highway 45 in Paducah was closed due to water deep enough to float vehicles. Nearly an inch of rain fell in one hour at the National Weather Service office at the airport.

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### FULTON COUNTY --- 0.7 S HICKMAN [36.56, -89.18], 0.7 SW DODD [36.56, -89.16]

02/24/11 18:15 CST	30K	Tornado (EF0, L: 1.11 mi , W: 50 yd)
02/24/11 18:17 CST	0	Source: NWS Storm Survey

This tornado touched down near the intersection of Highways 1099 and 125 and travelled east one mile to the high school. Some windows were blown out of a house. A patio roof was ripped off and thrown 100 yards. Half of a garage roof was blown off. Debris was blown into trees. A mail box was blown over. Some shingles were off of four other homes. A metal dugout was destroyed at the high school. Peak winds were estimated near 80 mph.



## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>FULTON COUNTY --- 3.0 ESE HICKMAN [36.55, -89.13], 3.2 ESE HICKMAN [36.55, -89.13]</b>				
	02/24/11 18:18 CST		75K	Thunderstorm Wind (EG 74 kt)
	02/24/11 18:18 CST		0	Source: NWS Storm Survey
The damage area of this downburst was 150 yards wide and 75 yards long. One grain bin was destroyed, with debris scattered 1000 yards from the foundation. A second grain bin had the roof ripped off and was thrown about 100 yards. A machinery shed was structurally damaged. A carport was peeled back, and a vehicle accessory was damaged. Dozens of large tree limbs were broken. Siding was peeled off a house.				
<b>HICKMAN COUNTY --- CLINTON [36.67, -88.98]</b>				
	02/24/11 18:30 CST		5K	Thunderstorm Wind (EG 52 kt)
	02/24/11 18:30 CST		0	Source: Department of Highways
Kentucky Highway 58 was closed between the 10 and 12 mile markers due to a downed tree entangled in power lines. A power pole was down along Highway 58 in Clinton, and the southeast section of town was without power.				
<b>FULTON COUNTY --- 0.6 NW RICEVILLE [36.53, -88.89], 0.8 NNE FULTON [36.53, -88.86]</b>				
	02/24/11 18:32 CST		0	Tornado (EF1, L: 1.45 mi , W: 50 yd)
	02/24/11 18:38 CST		0	Source: NWS Storm Survey
The initial touchdown point was about two miles northwest of Fulton at the Amtrak station on U.S. Highway 51. At initial touchdown, a few power poles were snapped and lying across power lines. A citywide power outage affected Fulton. Further northeast, two grain bins were tossed for several hundred yards, damaging nearby grain storage bins. Several sheds and garages were damaged or destroyed. A field irrigation system was toppled. Hundreds of trees were snapped or uprooted. A barn was destroyed. Several homes and barns had roof or shingle damage. Two campers were blown over. Peak winds were estimated at 95 mph. The average path width was 100 yards. The tornado crossed into Hickman County as it moved along Kentucky Highway 2569.				
<b>MCCRACKEN COUNTY --- LONE OAK [37.03, -88.67], 0.4 NE SHADY GROVE [36.98, -88.51]</b>				
	02/24/11 18:36 CST		45K	Thunderstorm Wind (EG 52 kt)
	02/24/11 18:45 CST		0	Source: Emergency Manager
A carport was blown across U.S. Highway 45 in Lone Oak. Power outages were reported around the area. On the south side of Paducah, a roof was blown off a small building used as an antique and knick-knack store. The owner reported about 40 percent damage to the merchandise inside. On Highway 131 in the Reidland area, a tree fell on a home.				
<b>HICKMAN COUNTY --- 4.8 S BEELERTON [36.53, -88.86], 4.7 SE BEELERTON [36.55, -88.82]</b>				
	02/24/11 18:38 CST		60K	Tornado (EF1, L: 2.85 mi , W: 100 yd)
	02/24/11 18:40 CST		0	Source: NWS Storm Survey
The tornado crossed into Hickman County from Fulton County, then crossed U.S. Highway 45 and the Purchase Parkway. Trees and power poles were snapped off. A barn was destroyed. Shingles were blown off houses. Peak winds were estimated near 95 mph. The average path width was 100 yards. The tornado then exited into Graves County south of Water Valley.				
<b>GRAVES COUNTY --- 1.8 SSW WATER VLY [36.55, -88.82], 2.5 W PILOT OAK [36.55, -88.77]</b>				
	02/24/11 18:40 CST		20K	Tornado (EF1, L: 2.88 mi , W: 100 yd)
	02/24/11 18:46 CST		0	Source: NWS Storm Survey
The tornado crossed from Hickman County into Graves County south of Water Valley. Two houses sustained minor to moderate roof damage. The roof of a pole barn was blown off. A camper was blown over. A small metal shed was destroyed. Kentucky 1219 was closed south of Water Valley near the Hickman County line due to downed trees and power lines. Near Water Valley, trees were down and building debris was on Route 94. The tornado tracked east-northeast to just south of Feliciana, then paralleled Highway 94 before dissipating. Peak winds were estimated near 95 mph.				
<b>GRAVES COUNTY --- 2.5 W PILOT OAK [36.55, -88.77]</b>				
	02/24/11 18:49 CST		10K	Thunderstorm Wind (EG 78 kt)
	02/24/11 18:49 CST		0	Source: NWS Storm Survey
A microburst occurred at the end of a tornado track that originally started near Fulton. A large barn was heavily damaged, spreading debris southeast across Highway 94.				
<b>GRAVES COUNTY --- WINGO [36.65, -88.73], 1.0 S WINGO [36.64, -88.73]</b>				
	02/24/11 18:49 CST		0	Hail (1.00 in)
	02/24/11 18:51 CST		0	Source: Trained Spotter

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GRAVES COUNTY --- MAYFIELD [36.73, -88.63], FARMINGTON [36.67, -88.52]</b>				
	02/24/11 18:50 CST		5K	Thunderstorm Wind (EG 52 kt)
	02/24/11 18:58 CST		0	Source: Department of Highways
A large overhead highway sign was knocked down on the Purchase Parkway near the 25-mile marker at Mayfield. Near Farmington, a carport was blown away.				
<b>MARSHALL COUNTY --- HARVY [36.82, -88.42], BRIENSBURG [36.90, -88.32]</b>				
	02/24/11 18:58 CST		30K	Thunderstorm Wind (EG 61 kt)
	02/24/11 19:12 CST		0	Source: Trained Spotter
Wind gusts from 60 to 70 mph caused sporadic damage over a fairly wide area of Marshall County. Near Harvey, several trees were blown down. Near Briensburg, portable storage sheds and a pontoon boat were overturned, and a metal carport was blown into power lines. In Benton, a building lost enough shingles that water entered the attic. Debris was reported on the Purchase Parkway near the 48-mile marker near Draffenville. A wind gust to 55 mph was measured near Calvert City.				
<b>DAVIESS COUNTY --- 2.5 N (OWB)OWENSBORO ARPT [37.79, -87.18], 2.2 WSW THURSTON [37.79, -87.07], 2.1 S BROWNWOOD MANOR [37.72, -87.05], 0.7 SSE ROME [37.71, -87.18], 1.6 NE ST JOSEPH [37.71, -87.31], 2.0 NW SORGHO [37.77, -87.28]</b>				
	02/24/11 19:00 CST		10K	Flash Flood (due to Heavy Rain)
	02/24/11 22:00 CST		0	Source: Emergency Manager
Numerous vehicles were stranded on flooded streets throughout the city of Owensboro. Highway 56 was completely underwater between Sorgho and West Louisville.				
<b>HENDERSON COUNTY --- 3.3 S WHITE CITY [37.90, -87.57], 0.5 NNW BASKETT [37.88, -87.47], 0.5 NNW SPOTTSVILLE [37.86, -87.42], 0.6 NNW EUTERPE [37.73, -87.46], 2.0 SSW NIAGARA [37.69, -87.50], 1.7 E ROCK SPGS [37.73, -87.62]</b>				
	02/24/11 19:00 CST		0	Flash Flood (due to Heavy Rain)
	02/24/11 23:30 CST		0	Source: Department of Highways
Water was over U.S. Highway 41 on the north side of Henderson near the entrance to Audubon State Park. Kentucky Highway 416 was closed near the two-mile marker. Nearly all of Kentucky Highway 2247 was closed. Water was over parts of Highway 812.				
<b>CALLOWAY COUNTY --- 2.9 WSW ALMO [36.68, -88.32]</b>				
	02/24/11 19:08 CST		3K	Thunderstorm Wind (EG 52 kt)
	02/24/11 19:08 CST		0	Source: Trained Spotter
Some portable outdoor sheds were blown around.				
<b>CALDWELL COUNTY --- BLACK HAWK [36.97, -87.87]</b>				
	02/24/11 19:25 CST		5K	Thunderstorm Wind (EG 52 kt)
	02/24/11 19:25 CST		0	Source: NWS Storm Survey
Along Interstate 24 near the Lyon County line, several small trees were down, along with snapped branches. An interstate sign was damaged.				
<b>TRIGG COUNTY --- 3.0 WNW CADIZ [36.89, -87.87], 2.8 SSW WALLONIA [36.91, -87.78]</b>				
	02/24/11 19:35 CST		12K	Thunderstorm Wind (EG 61 kt)
	02/24/11 19:35 CST		0	Source: NWS Storm Survey
A number of trees and tree limbs were broken or snapped. Some shingles were blown off several homes on Highway 139 a couple miles north of Cadiz, and one home had siding damage. Tree limbs were down at Interstate 24 and Kentucky 124.				
<b>CHRISTIAN COUNTY --- 2.5 NE GRACEY [36.90, -87.62], 1.3 S PLEASANT GREEN HILL [36.91, -87.52]</b>				
	02/24/11 19:50 CST		0.60M	Tornado (EF2, L: 5.68 mi , W: 300 yd)
	02/24/11 19:58 CST		0	Source: NWS Storm Survey
Several barns were levelled, and several grain bins were destroyed. A grain bin was carried over two-thirds of a mile. One of the destroyed barns was 20 by 150 feet. There were some homes with primarily roof damage or loss of shingles. Windows were blown out. Dozens of trees were uprooted or snapped. At least ten power poles were snapped, and debris and electrical lines were across roads. State Route 91 was closed for an extended period of time. The tornado lifted as it crossed Highway 109 just a couple of miles northwest of Hopkinsville. Peak winds were estimated near 115 mph. The average path width was 225 yards.				
<b>CHRISTIAN COUNTY --- 1.1 N ERA [37.04, -87.58], 2.3 S POD [37.05, -87.53]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/24/11 19:52 CST		60K	Thunderstorm Wind (EG 74 kt)
	02/24/11 19:56 CST		0	Source: NWS Storm Survey

Concentrated straight-line wind damage occurred along Highway 800. Several trees were uprooted, several houses lost shingles, and a couple of barn roofs were damaged. Several greenhouses sustained roof and structural damage. Peak winds were estimated near 85 mph. The path width was about three-quarters of a mile, and the path length was two miles.

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### CHRISTIAN COUNTY --- 1.1 NE WEST BROOK [36.81, -87.49], 1.0 SE HOPKINSVILLE ARPT [36.84, -87.44]

02/24/11 19:55 CST	0	Thunderstorm Wind (MG 67 kt)
02/24/11 19:57 CST	0	Source: Trained Spotter

A wind gust to 77 mph was measured by trained spotters around the Highway 68/80 by-pass on the east side of town. A wind gust to 65 mph was measured nearby on the south side of Hopkinsville.

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### WEBSTER COUNTY --- CLAY [37.48, -87.83], 2.6 W LISMAN [37.47, -87.78], SLAUGHTERS [37.48, -87.50], 0.7 W ELMWOOD [37.53, -87.51], 1.6 NNW ORTIZ [37.57, -87.63], 1.4 W LUZON [37.53, -87.76]

02/24/11 20:00 CST	10K	Flash Flood (due to Heavy Rain)
02/24/11 22:00 CST	0	Source: Emergency Manager

A few state highways were closed by flooding. State Highway 132 was closed between Dixon and Clay due to high water. Two vehicles were abandoned. State Highway 138 was closed near Slaughters. Between Sebree and Dixon, Kentucky 283 was closed a couple miles north of 132. Several other county roads and state highways in the west half of the county were covered with water, including Highway 1340. One vehicle became stranded in flood waters, and water entered the driver's compartment. The driver was rescued uninjured by county rescue crews.

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### MUHLENBERG COUNTY --- CENTRAL CITY [37.30, -87.13]

02/24/11 20:22 CST	2K	Thunderstorm Wind (MG 54 kt)
02/24/11 20:22 CST	0	Source: Trained Spotter

A trained spotter measured a wind gust to 62 mph. Trees were down along U.S. Highway 431.

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### TODD COUNTY --- CLIFTY [36.98, -87.15]

02/24/11 20:25 CST	0	Thunderstorm Wind (EG 56 kt)
02/24/11 20:25 CST	0	Source: Trained Spotter

A wind gust from 60 to 65 mph was estimated by a trained spotter.

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### GRAVES COUNTY --- 2.6 N TRI CITY [36.62, -88.53], 1.3 N BELL CITY [36.55, -88.50], 1.7 SSW WATER VLY [36.55, -88.82], 2.8 NNW DUBLIN [36.77, -88.82], 3.6 NNW PRYORSBURG [36.73, -88.72]

02/24/11 20:30 CST	0	Flash Flood (due to Heavy Rain)
02/24/11 22:30 CST	0	Source: Emergency Manager

A horse-drawn buggy carrying an Amish family was washed away at a low water crossing on a rural gravel road. Four children drowned after they were swept down a swollen creek a short distance into Hickman County. The low water crossing itself was right on the Graves County line. Water was over a number of roads in Graves County, including U.S. Highway 45 at the Hickman County line. Water was over Kentucky Highway 97 between the 5 and 15 mile markers.

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### HICKMAN COUNTY --- 1.3 E BEULAH [36.77, -88.83], 1.9 E BEULAH [36.77, -88.82], 3.3 ENE NICHOLS [36.72, -88.82], 2.6 NE NICHOLS [36.72, -88.83]

02/24/11 20:30 CST	4	0	Flash Flood (due to Heavy Rain)
02/24/11 22:30 CST		0	Source: Emergency Manager

A horse-drawn buggy carrying an Amish family was washed away at a low water crossing on a rural gravel road. Four children drowned when they were swept down a swollen creek. Reports stated that up to five feet of water swept the buggy away. The two parents driving the buggy and made it to safety, along with three children. Of the children who drowned, three were siblings and the fourth was a cousin. Three of the bodies were recovered within hours, and the fourth was recovered the following morning. The low water crossing itself was on the Graves County line, and the bodies were located up to 600 yards into Hickman County. The horse and buggy were located about 100 yards downstream from the road. The horse survived. The family was on its way back from making a phone call at a community phone shack used by the Amish community.

Direct Fatalities: M8VE, F5VE, F11VE, F0VE

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### CHRISTIAN COUNTY --- HONEY GROVE [36.88, -87.30], 3.0 WSW MASONVILLE [36.76, -87.52], 1.7 SSW GRACEY [36.85, -87.66], 2.6 N KELLY [37.01, -87.47]

02/24/11 22:15 CST	0	Flash Flood (due to Heavy Rain)
02/24/11 23:59 CST	0	Source: Trained Spotter

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A foot of standing water was over a secondary road. U.S. Highway 41 was partially blocked due to rapidly flowing water.

<b>CALLOWAY COUNTY --- DEXTER [36.75, -88.28], 0.5 E DEXTER [36.75, -88.27], 1.3 SSE DEXTER [36.73, -88.27], 1.1 S DEXTER [36.73, -88.28]</b>	02/25/11 00:00 CST	0	Flood (due to Heavy Rain)
	02/25/11 09:00 CST	0	Source: Law Enforcement

The Clarks River flooded over Highway 1346 east of Dexter. A van was stranded in floodwaters up to the headlights. A couple of other secondary roads were flooded near the river.

<b>MARSHALL COUNTY --- BENTON [36.87, -88.35], 1.0 NNW DOGTOWN [36.86, -88.33], 1.2 E BENTON [36.87, -88.33], 0.5 ENE BENTON [36.87, -88.34]</b>	02/25/11 01:00 CST	0	Flood (due to Heavy Rain)
	02/25/11 09:00 CST	0	Source: Law Enforcement

The Clarks River flooded over Highway 1462 just east of Benton.

A powerful mid-level shortwave trough ejected east-northeast across the southern Plains, reaching the lower and mid Mississippi Valley during the night. In the lower levels, a low intensified as it tracked from Oklahoma into southern Missouri during the day, then across the Lower Ohio Valley in the evening. To the east of the low, a warm front advanced northward to the Lower Ohio Valley. Storms moving east-northeast evolved into an extensive QLCS (quasi-linear convective system) that produced scattered wind damage and a few tornadoes. Preceding the QLCS, widespread heavy rain accompanied the warm front.



*Photo of low water crossing on Roscoe Road where the horse-drawn buggy was swept away, killing four children. Photo from Shane Luecke, NWS Paducah.*

<b>MUHLENBERG COUNTY --- 0.3 WSW PARADISE [37.27, -86.99], 0.5 NW PARADISE [37.28, -86.99], 0.4 NNW PARADISE [37.28, -86.98], 0.1 WSW PARADISE [37.27, -86.98]</b>	02/25/11 12:00 CST	0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST	0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MCLEAN COUNTY --- CALHOUN [37.53, -87.27], 0.4 SSE CALHOUN [37.53, -87.27], 0.5 W RUMSEY [37.52, -87.28], 0.6 WSW CALHOUN [37.53, -87.28]</b>				
	02/28/11 12:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage

<b>UNION COUNTY --- 1.0 NNW UNIONTOWN [37.78, -87.94], 2.0 N UNIONTOWN [37.80, -87.92], 1.6 NNE UNIONTOWN [37.79, -87.92], 0.8 N UNIONTOWN [37.78, -87.93]</b>				
	02/28/11 12:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage

Spring river flooding arrived early across the region. Two heavy rainfall events during the last week of the month produced 3 to 6 inches. The flooding was enhanced by snowmelt following the snowy weather of January into early February. Both the Green and Ohio Rivers rose above flood stage at many locations during the last few days of the month. The flooding along both rivers was minor in February, consisting of flooded low-lying fields. However, the rivers continued rising in March.

<b>LIVINGSTON COUNTY --- 0.6 ESE VICKSBURG [37.18, -88.32]</b>				
	02/28/11 03:15 CST		8K	Thunderstorm Wind (EG 52 kt)
	02/28/11 03:15 CST		0	Source: Emergency Manager

A house trailer was damaged between Smithland and Tiline. The residents were evacuated. An attached shed was torn off.

<b>GRAVES COUNTY --- 0.8 NNE TRI CITY [36.59, -88.52]</b>				
	02/28/11 03:55 CST		15K	Thunderstorm Wind (EG 61 kt)
	02/28/11 03:55 CST		0	Source: Newspaper

An entire barn was blown onto a state highway near the intersection of Kentucky Highways 94 and 564. Traffic was blocked for more than two hours.

A surface cyclone accelerated northeast from the southern Plains through central Missouri and the Ohio Valley. An associated warm front lifted northward through the Mid-Mississippi and Lower Ohio Valleys in advance of the surface low. A cold front trailing south from the low surged eastward toward the Lower Mississippi Valley. A broken line of storms produced strong and gusty winds, including a few isolated damaging wind events.

### MISSOURI, Southeast

<b>(MO-Z076) PERRY</b>				
	02/01/11 00:00 CST		4K	Winter Weather
	02/02/11 06:00 CST		0	

A strengthening low pressure system tracked northeast from the southern Plains, passing across the Lower Ohio Valley. On the north and west side of the low pressure track, a period of freezing rain caused hazardous conditions. Up to one-quarter inch of icing occurred north and west of Perryville. This icing was mostly on elevated surfaces, including trees and power lines. Some tree limbs were brought down in western Perry County, causing isolated power outages. Around one-tenth inch of ice glazed elevated surfaces further south and east, including the city of Perryville. Countywide, several vehicles slid into ditches due to icy conditions.

<b>(MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT</b>				
	02/04/11 23:00 CST		0	Winter Weather
	02/05/11 09:00 CST		0	

<b>(MO-Z076) PERRY</b>				
	02/05/11 00:00 CST		0	Heavy Snow
	02/05/11 10:00 CST		0	

An upper-level storm system lifted northeast out of the southern Plains. An associated weak surface low moved northeast across western Kentucky and southwest Indiana. A few bands of moderate to locally heavy snowfall occurred to the north and west of the surface low path. Visibility was around one-quarter mile in the bands of heavy snow. Accumulations ranged from 1 to 3 inches across most of southeast Missouri, except for locally around 6 inches in the Perryville area. Less than an inch fell near the Missouri Bootheel, in the counties of Mississippi and New Madrid. Specific snowfall reports included 6 inches in Perryville, 2.5 inches in Marble Hill and Jackson, 2 inches in Ellsinore, and about 1.5 inches at Cape Girardeau and Poplar Bluff. Roads were snow-covered and very slippery. In Jackson in Cape Girardeau County, police responded to 10 traffic mishaps. Eight of the mishaps involved cars sliding into ditches with little or no damage. Cape Girardeau police reported that several cars slid into ditches. An accident on Interstate 55 seriously injured a

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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woman whose vehicle overturned several times after going out of control on an ice-covered bridge.

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### (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

02/07/11 03:00 CST	0	Heavy Snow
02/07/11 12:00 CST	0	

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### (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT

02/07/11 04:00 CST	0	Winter Weather
02/07/11 11:00 CST	0	

A surface low pressure system developed in the Lower Mississippi Valley, then strengthened as it moved northeast across Tennessee and Kentucky. In the upper levels of the atmosphere, a rather strong disturbance tracked northeast from eastern Arkansas toward the Lower Ohio Valley. A band of heavy snow was produced by the upper level low, where snowfall rates were measured up to an inch per hour. Storm total snowfall amounts ranged from 4 to 6 inches in this band, which covered areas from Sikeston south and east. Outside of this band, about three inches of snow fell as far northwest as a line from Doniphan (Ripley County) to Scott City (Scott County). Specific snowfall reports included: 6 inches in New Madrid and Portageville (New Madrid County), 5 inches in East Prairie (Mississippi County), 4.5 inches near Qulin (Butler County) and Charleston, 4 inches in Sikeston, 3.5 inches in Dexter, 3 inches in Poplar Bluff and Doniphan, and 2.5 inches near Benton (Scott County) and Naylor (Ripley County). Roads became snow-covered and slippery. Numerous accidents were reported. The snow disappeared rather quickly from paved surfaces a few hours after the snow ended. This was mainly due to relatively warm pavement temperatures.

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### (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

02/09/11 06:00 CST	0	Heavy Snow
02/09/11 16:00 CST	0	

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### (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT

02/09/11 07:00 CST	0	Winter Weather
02/09/11 16:00 CST	0	

A large area of snow occurred along and to the east of a well-defined surface low pressure trough. East of the surface trough, northeasterly surface winds kept cold air in place. Warmer air moving in aloft created conditions favorable for heavy snow. The heaviest snow occurred just ahead of a disturbance in the mid levels of the atmosphere. Snowfall rates in the southeast corner of Missouri in Mississippi County were 1 to 2 inches per hour. As the low pressure trough moved east across the region, the snow ended in its wake. The heaviest snowfall totals occurred in the New Madrid and Charleston areas, where 3 to 4 inches was common. To the north and west, amounts were generally from 1 to 2 inches. Specific snowfall totals included: 4 inches in East Prairie (Mississippi County), 3.5 inches in Matthews (New Madrid County), 3 inches in Sikeston, 2 inches in Dexter, Doniphan, Piedmont (Wayne County), and near Benton (Scott County), 1.5 inches in Van Buren (Carter County), and one inch in Zalma (Bollinger County) and Cape Girardeau. Due to very cold temperatures, roads quickly became snow-packed and very slippery. Numerous accidents were reported. In New Madrid County, both lanes of Interstate 55 were closed near Portageville due to a multi-vehicle accident. Three people were seriously injured when a parked police car that was directing traffic around another accident was struck from behind. State police reported 32 other accidents on a short stretch of Interstate 55 between New Madrid and Portageville. Several tractor-trailers jack-knifed or slid off the road. Elsewhere, several cars slid off roads in Stoddard County. An overturned tractor-trailer caused lane closures on Interstate 55 at Cape Girardeau. Cape Girardeau police responded to about 15 accidents, including four on the interstate. Two people received moderate injuries when a car slid into the path of another car near Chaffee on Highway 77. Visibility was reduced to one-quarter mile or less in the heavy snow areas. Many schools were closed or dismissed early.

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### (MO-Z108) RIPLEY

02/14/11 14:00 CST	0	Wildfire
02/14/11 20:00 CST	0	

Dry north winds fanned the flames of a forest fire that burned about 210 acres of land in the Mark Twain National Forest. The fire occurred northwest of Bennett and east of Highway J.

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### STODDARD COUNTY --- DEXTER [36.80, -89.95]

02/24/11 16:00 CST	0	Heavy Rain
02/24/11 20:00 CST	0	Source: Trained Spotter

At least a couple of roads were underwater, including portions of Business Highway 60. Rainfall rates were around one-half inch per hour.

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### STODDARD COUNTY --- 0.5 WNW DEXTER ARPT [36.78, -89.94], 1.4 NNW DEXTER JCT [36.82, -89.93], 2.4 WNW DEXTER [36.81, -89.99], 2.4 SW DEXTER [36.78, -89.98]

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/24/11 17:30 CST		0	Flash Flood (due to Heavy Rain)
	02/24/11 20:00 CST		0	Source: Trained Spotter

At least a couple of roads were underwater, including portions of Business Highway 60. Rainfall rates were around one-half inch per hour.

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<b>NEW MADRID COUNTY --- 0.9 ESE PORTAGEVILLE [36.42, -89.69]</b>				
	02/24/11 17:40 CST		0	Thunderstorm Wind (EG 52 kt)
	02/24/11 17:40 CST		0	Source: Trained Spotter

Wind gusts were estimated near 60 mph. Moving cars were blown off Interstate 55 at the Portageville exit.

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<b>NEW MADRID COUNTY --- 5.0 E PORTAGEVILLE [36.43, -89.61]</b>				
	02/24/11 17:55 CST		0	Funnel Cloud
	02/24/11 17:55 CST		0	Source: NWS Storm Survey

A funnel cloud was observed near the downburst damage site by numerous people.

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<b>NEW MADRID COUNTY --- 5.0 E PORTAGEVILLE [36.43, -89.61]</b>				
	02/24/11 17:55 CST		75K	Thunderstorm Wind (EG 65 kt)
	02/24/11 17:55 CST		0	Source: NWS Storm Survey

The path width of this downburst was about 75 yards, and the path length was about 300 yards. Two well-constructed barns were destroyed. There was shingle and siding damage to at least five homes. Tree limbs were down, and a privacy fence was down.

**A powerful mid-level shortwave trough ejected east-northeast across the southern Plains, reaching the lower and mid Mississippi Valley during the night. In the lower levels, a low intensified as it tracked from Oklahoma into southern Missouri during the day, then across the Lower Ohio Valley in the evening. To the east of the low, a warm front advanced northward to the Lower Ohio Valley. Storms moving east-northeast evolved into an extensive QLCS (quasi-linear convective system) that produced scattered wind damage in New Madrid County.**

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<b>CAPE GIRARDEAU COUNTY --- 1.0 ENE GULF JCT [37.28, -89.53], 1.6 ENE GULF JCT [37.28, -89.52], 1.9 ESE GULF JCT [37.26, -89.52], 1.7 SE GULF JCT [37.25, -89.53]</b>				
	02/27/11 09:00 CST		0	Flood (due to Heavy Rain)
	02/28/11 23:59 CST		0	Source: River/Stream Gage

Spring river flooding arrived early across the region. Two heavy rainfall events during the last week of the month produced 3 to 6 inches. The flooding was enhanced by snowmelt following the snowy weather of January into early February. The Mississippi River rose above flood stage at some locations within a day or two of month's end. The flooding along the river was minor in February, consisting of flooded two-lying fields. However, the river continued rising in March.

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<b>PERRY COUNTY --- PERRYVILLE [37.72, -89.87]</b>				
	02/28/11 01:25 CST		0	Hail (1.00 in)
	02/28/11 01:25 CST		0	Source: Law Enforcement

Quarter-size hail was reported at the county sheriff department.

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<b>CAPE GIRARDEAU COUNTY --- JACKSON [37.38, -89.67]</b>				
	02/28/11 01:56 CST		5K	Lightning
	02/28/11 01:56 CST		0	Source: Emergency Manager

Lightning struck a large transformer, knocking out power to about three-quarters of the city.

**A surface cyclone accelerated northeast from the southern Plains through central Missouri and the Ohio Valley. An associated warm front lifted northward through the Mid-Mississippi and Lower Ohio Valleys in advance of the surface low. A cold front trailing south from the low surged eastward toward the Lower Mississippi Valley. An isolated severe storm tracked across Perry County.**